QC ABSTRACT

NAME OF WORK: Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	6.69	4	4
8	RMC(M20)	Compressive Strength(7days and 28days)	3 set /16-30 cum	28.75	6	6
9	RCC(M20)	Compressive Strength(7days and 28days)	5 set /51-100 cum	63.9	10	10

Assistant Executive Engineer,
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10	Mortar Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		Compacted Bulk Density	One Test		1	1
		Loose Bulk Density	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
11	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1
12	Paver Block	Compressive Strength	One Test		1	1
		Water Absorption	One Test		1	1
13	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
14	M.S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
15	M.S. Rectangular pole	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-06-26** **Date: 17-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	14-08-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.05	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2020-10-06-26**	**Date: 11-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.	
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.	
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-08-20	
Sample Type	:	Birla Super 53grade	
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6	
Date of test	:	14-08-20	
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%	

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-10-06-26** **Date: 17-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	13-08-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	385	385	2.6	97.4	90-100
3	20 mm	7048	7433	49.6	50.4	30-70
4	10 mm	4396	11829	78.9	21.1	10-35
5	4.75 mm	2845	14674	97.8	2.2	0-5
6	Pan	326	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-10-06-26** **Date: 17-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.9	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.48	–
6	Water Absorption(%)	0.23	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2020-10-06-26** **Date: 17-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-08-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	13-08-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	318	318	6.4	93.6	90-100
3	10 mm	2852	3170	63.4	36.6	25-55
4	4.75 mm	1622	4792	95.8	4.2	0-10
5	Pan	208	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2020-10-06-26** **Date: 17-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	8.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.62	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.25	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-10-06-26** **Date: 17-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-20

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 13-08-20

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	57	57	5.7	94.3	90-100	90-100	90-100	95-100
3	2.36 mm	129	186	18.6	81.4	60-95	75-100	85-100	95-100
4	1.18 mm	219	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	203	608	60.8	39.2	15-34	35-59	60-79	80-100
6	300 micron	179	787	78.7	21.3	5-20	8-30	12-40	15-50
7	150 micron	149	936	93.6	6.4	0-10	0-10	0-10	0-15
8	Pan	64	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-10-06-26** **Date: 17-08-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	5.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2020-10-06-26**	**Date: 31-08-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.	
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.	
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	27-08-20	
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm	
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)	
Date of test	:	27-08-20	

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	200	201	16160	33.980	2102.7	2073.5	Not less than 1800Kg/m^3
2	404	199	202	16240	32.743	2016.2		
3	400	200	200	16000	33.627	2101.7		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2020-10-06-26** **Date: 31-08-20**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	401	199	200	
2	400	202	202	
3	402	200	200	
4	402	201	202	
5	401	202	202	
6	402	203	203	
7	401	200	199	
8	404	199	199	
9	403	200	200	
10	403	200	202	
11	399	200	201	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
12	401	201	200	
13	401	201	201	
14	402	201	203	
15	402	200	203	
16	400	202	200	
17	402	200	203	
18	402	201	202	
19	400	200	199	
20	404	200	200	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2020-10-06-26** **Date: 31-08-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	199	79775	383.0	4.8	4.7
2	400	202	80535	365.1	4.5	
3	402	200	80282	374.9	4.7	
4	402	201	80788	368.7	4.6	
5	401	202	80911	390.8	4.8	
6	402	203	81611	384.6	4.7	
7	401	200	80250	363.2	4.5	
8	404	199	80500	375.2	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Yelahanka Zone, B.B.M.P.,
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Authorized Signatory
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TEST RESULTS OF STEEL

Lab ID : **CP-2020-10-06-26** **Date: 14-08-20**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-20

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 13-08-20

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2020-10-06-26** **Date: 27/08/2020**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-20
Customer ID	:	Copping Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete	M15	20/08/2020	27/08/2020	151.74 X 150.89 X 151.88	22896	**8.498**	285.3	12.5	12.4
2	Copping Concrete	M15	20/08/2020	27/08/2020	151.80 X 150.77 X 150.34	22887	**8.679**	289.4	12.6	
3	Copping Concrete	M15	20/08/2020	27/08/2020	150.12 X 149.44 X 149.27	22435	**8.414**	274.6	12.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, Mahanka Zone, B.B.M.P., Bangalore.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/09/2020

Lab ID	:	**CP-2020-10-06-26**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	24-08-20
Customer ID	:	Copping Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	17/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete	M15	20/08/2020	17/09/2020	150.73 X 149.31 X 150.97	22506	**8.613**	390.4	17.3	17.7
2	Copping Concrete	M15	20/08/2020	17/09/2020	150.89 X 151.74 X 151.30	22895	**8.633**	411.4	18.0	
3	Copping Concrete	M15	20/08/2020	17/09/2020	151.72 X 151.29 X 149.32	22955	**8.413**	405.0	17.6	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 27/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete	M15	20/08/2020	27/08/2020	149.44 X 149.60 X 150.02	22357	**8.498**	275.4	12.3	12.2
2	Copping Concrete	M15	20/08/2020	27/08/2020	150.28 X 150.51 X 151.31	22618	**8.679**	277.7	12.3	
3	Copping Concrete	M15	20/08/2020	27/08/2020	149.71 X 150.24 X 149.54	22492	**8.414**	272.3	12.1	

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 17/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Copping Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Copping Concrete	M15	20/08/2020	17/09/2020	149.18 X 151.27 X 150.02	22566	**8.613**	399.8	17.7	17.3
2	Copping Concrete	M15	20/08/2020	17/09/2020	149.62 X 151.65 X 149.06	22691	**8.633**	388.1	17.1	
3	Copping Concrete	M15	20/08/2020	17/09/2020	151.58 X 151.08 X 150.30	22901	**8.413**	391.2	17.1	

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Assistant Executive Engineer, Kodigehalli Sub Division, Yeshwanthpura Zone, B.B.M.P., Bangalore.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 27/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/08/2020	27/08/2020	151.48 X 149.04 X 149.43	22577	**8.276**	407.5	18.0	18.5
2	Drain Bottom Slab Concrete	M20	20/08/2020	27/08/2020	149.88 X 150.10 X 150.75	22497	**8.074**	421.1	18.7	
3	Drain Bottom Slab Concrete	M20	20/08/2020	27/08/2020	151.10 X 149.08 X 150.10	22526	**8.896**	425.1	18.9	

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 17/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-08-20

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	20/08/2020	17/09/2020	151.30 X 149.41 X 149.46	22606	**8.786**	538.8	23.8	23.5
2	Drain Bottom Slab Concrete	M20	20/08/2020	17/09/2020	149.70 X 150.03 X 150.02	22459	**8.798**	514.1	22.9	
3	Drain Bottom Slab Concrete	M20	20/08/2020	17/09/2020	149.50 X 150.85 X 150.39	22552	**8.038**	535.2	23.7	

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/08/2020	30/08/2020	151.04 X 149.56 X 151.96	22590	**8.276**	414.4	18.3	18.4
2	Drain Side Wall Concrete	M20	23/08/2020	30/08/2020	150.21 X 149.89 X 150.05	22514	**8.074**	405.4	18.0	
3	Drain Side Wall Concrete	M20	23/08/2020	30/08/2020	150.88 X 150.67 X 150.10	22733	**8.896**	425.4	18.7	

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/08/2020	20/09/2020	149.04 X 150.15 X 149.95	22378	**8.786**	518.3	23.2	23.1
2	Drain Side Wall Concrete	M20	23/08/2020	20/09/2020	151.17 X 149.24 X 149.67	22561	**8.798**	514.1	22.8	
3	Drain Side Wall Concrete	M20	23/08/2020	20/09/2020	151.81 X 149.69 X 150.52	22725	**8.038**	531.5	23.4	

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Assistant Executive Engineer, Division, B.B.M.P., Bangalore.

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Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/08/2020	30/08/2020	150.65 X 151.87 X 149.59	22880	**8.276**	414.1	18.1	18.3
2	Drain Side Wall Concrete	M20	23/08/2020	30/08/2020	149.54 X 149.06 X 151.80	22290	**8.074**	408.2	18.3	
3	Drain Side Wall Concrete	M20	23/08/2020	30/08/2020	149.65 X 149.06 X 151.48	22306	**8.896**	412.3	18.5	

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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-08-20

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	23/08/2020	20/09/2020	149.63 X 149.28 X 151.27	22338	**8.786**	528.1	23.6	22.9
2	Drain Side Wall Concrete	M20	23/08/2020	20/09/2020	149.54 X 151.69 X 149.75	22684	**8.798**	500.0	22.0	
3	Drain Side Wall Concrete	M20	23/08/2020	20/09/2020	151.92 X 149.62 X 151.51	22730	**8.038**	525.0	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	31/08/2020	151.76 X 151.07 X 150.94	22926	**8.276**	432.7	18.9	18.5
2	RCC	M20	24/08/2020	31/08/2020	149.50 X 150.63 X 150.55	22519	**8.074**	412.8	18.3	
3	RCC	M20	24/08/2020	31/08/2020	150.12 X 150.63 X 149.29	22612	**8.896**	411.7	18.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, Yelahanka Zone, B.B.M.P., Bangalore.

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	21/09/2020	150.03 X 149.06 X 149.21	22363	**8.786**	519.9	23.2	23.0
2	RCC	M20	24/08/2020	21/09/2020	150.09 X 150.59 X 151.79	22602	**8.798**	507.9	22.5	
3	RCC	M20	24/08/2020	21/09/2020	150.47 X 150.20 X 149.86	22602	**8.038**	524.3	23.2	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Yelahanka, Bangalore.

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★R KARTHIK RECHAN
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Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	31/08/2020	150.47 X 150.50 X 151.60	22646	**8.276**	416.3	18.4	18.5
2	RCC	M20	24/08/2020	31/08/2020	151.31 X 151.44 X 150.31	22915	**8.074**	433.8	18.9	
3	RCC	M20	24/08/2020	31/08/2020	151.00 X 149.39 X 149.78	22558	**8.896**	410.2	18.2	

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Assistant Executive Engineer, Kodigehalli Sub Division, B.B.M.P., Bangalore.

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Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	21/09/2020	150.74 X 150.27 X 149.75	22652	**8.786**	529.3	23.4	23.2
2	RCC	M20	24/08/2020	21/09/2020	149.98 X 149.90 X 151.45	22482	**8.798**	512.0	22.8	
3	RCC	M20	24/08/2020	21/09/2020	151.33 X 150.74 X 149.38	22812	**8.038**	534.4	23.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	31/08/2020	149.07 X 149.51 X 149.75	22288	**8.276**	419.5	18.8	18.7
2	RCC	M20	24/08/2020	31/08/2020	149.21 X 150.54 X 150.48	22462	**8.074**	420.3	18.7	
3	RCC	M20	24/08/2020	31/08/2020	151.06 X 150.61 X 149.70	22751	**8.896**	424.8	18.7	

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	21/09/2020	150.40 X 149.68 X 151.81	22511	**8.786**	523.0	23.2	22.9
2	RCC	M20	24/08/2020	21/09/2020	149.13 X 150.08 X 150.04	22382	**8.798**	501.2	22.4	
3	RCC	M20	24/08/2020	21/09/2020	150.18 X 150.88 X 150.93	22660	**8.038**	522.1	23.0	

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Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	31/08/2020	150.54 X 150.79 X 150.20	22701	**8.276**	427.3	18.8	18.6
2	RCC	M20	24/08/2020	31/08/2020	151.35 X 150.98 X 151.19	22852	**8.074**	429.6	18.8	
3	RCC	M20	24/08/2020	31/08/2020	151.60 X 151.92 X 150.94	23030	**8.896**	415.9	18.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 21/09/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

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Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	21/09/2020	149.66 X 151.21 X 150.96	22629	**8.786**	521.2	23.0	23.1
2	RCC	M20	24/08/2020	21/09/2020	149.86 X 149.87 X 150.05	22459	**8.798**	506.9	22.6	
3	RCC	M20	24/08/2020	21/09/2020	149.22 X 151.84 X 151.14	22658	**8.038**	538.9	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2020-10-06-26** **Date: 31/08/2020**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.

Agency : Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.

Customer's Reference : BBMP/EE/BTP/WO/199/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-08-20

Customer ID : RCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/08/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	31/08/2020	149.98 X 151.77 X 151.11	22762	**8.276**	420.0	18.4	18.2
2	RCC	M20	24/08/2020	31/08/2020	151.42 X 150.06 X 151.99	22723	**8.074**	409.7	18.0	
3	RCC	M20	24/08/2020	31/08/2020	151.84 X 149.29 X 150.91	22668	**8.896**	414.0	18.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/09/2020

Lab ID	:	**CP-2020-10-06-26**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-08-20
Customer ID	:	RCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	21/09/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC	M20	24/08/2020	21/09/2020	151.81 X 149.89 X 149.39	22755	**8.786**	541.3	23.8	23.4
2	RCC	M20	24/08/2020	21/09/2020	149.46 X 151.52 X 150.40	22647	**8.798**	519.9	23.0	
3	RCC	M20	24/08/2020	21/09/2020	151.85 X 149.70 X 151.00	22731	**8.038**	531.5	23.4	

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Quality Manager

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Format No: CP/TF/2017

TEST REPORT FOR SAND MASONRY MORTARS

Lab ID	:	**CP-2020-10-06-26** **Date: 22-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-20
Sample Type	:	Fine Aggregate, M.Sand for Mortar
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2116-1980 (RA-2007) (Specification for Sand for Masonry Mortars) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	19-09-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 2116-1980 (RA-2007)
1	4.75 mm	0	0	0	100	100
2	2.36 mm	85	85	8.5	91.5	90-100
3	1.18 mm	200	285	28.5	71.5	70-100
4	600 micron	146	431	43.1	56.9	40-100
5	300 micron	116.5	547.5	54.8	45.3	5-70
6	150 micron	412.5	960	96.0	4.0	0-15
7	Pan	40	1000	100.0	0.0	0

Assistant Executive Engineer,
Kodigehalli Sub Divis
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Date.....
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TEST REPORT FOR SAND MASONRY MORTARS

Lab ID : CP-2020-10-06-26 Date: 22-09-20

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	3.18	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	12.2	Crushed Fine aggregate Max 15%
4	*Compacted Bulk Density (Kg/litre)	1.90	–
5	*Loose Bulk Density (Kg/litre)	1.73	–

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Assistant Executive Engineer,
Kengeri Sub Divisi
Bangalore Zone, B.B.M.P.
Bangalore.

CIVIL Pro Sig. Date. BANGALORE

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Authorized Signatory
Quality Manager

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Format No: CP/TF/2017

TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2020-10-06-26** **Date: 23-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-09-20
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	19-09-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS: 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	35	35	3.5	96.5	95-100
3	2.36 mm	15	50	5	95	95-100
4	1.18 mm	50	100	10	90	90-100
5	600 micron	100	200	20	80	80-100
6	300 micron	215	415	41.5	58.5	20-65
7	150 micron	500	915	91.5	8.5	0-15
8	Pan	85	1000	100	0	---

Assistant Executive Engineer,
Kodigehalli Sub Divisi
Ward No 08, B.B.M.P.,
Bangalore.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2020-10-06-26** **Date: 23-09-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.8	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	8.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Assistant Executive Engineer,
Jigahalli Sub Division
B.B.M.P.
Bangalore

CIVIL Pro
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Date.....
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R KARTHIK RECHAN
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Quality Manager

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CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2020-10-06-26** **Date: 18-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-09-20
Sample Type/ Size	:	Precast concrete blocks for paving
Reference to BIS codes	:	IS 15658:2006
Date of test	:	12-09-20

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	75.99	32.5	33.1
2	198.48	159.64	75.25	33.8	
3	199.54	159.54	75.48	32.5	
4	197.68	159.22	75.55	33.5	
5	198.11	159.87	75.32	32.8	
6	198.18	160.02	75.11	33.4	
7	198.45	158.99	75.98	33.2	
8	197.22	159.22	75.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

* The results obtained are satisfactory as per standard requirements.

Note:
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All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

Assistant Executive Engineer, Kodigehalli Sub Division, Yelanka Zone, BBMP, Bangalore

CIVIL Pro Sig Date BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2020-10-06-26** **Date: 03-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Project Name	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-09-20
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of testing	:	01-09-20

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

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Assistant Executive Engineer, Kodigehalli Sub Division, West Zone, B.B.M.P., Bangalore.

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CIVIL Pro Sig Date BANGALORE

R KARTHIK RECHAN
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Quality Manager

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AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID	:	**CP-2020-10-06-26** **Date: 07-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-09-20
Type of Sample	:	M.S Rectangular Pole(65X65X6)mm
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.
Date of testing	:	04-09-20

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

* The results obtained are satisfactory as per standard requirements.

Note:
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Assistant Executive Engineer,
Kodigehalli Sub Division
Hanka Zone, B.B.M.P.,
Bangalore.

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Date.....
BANGALORE

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GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2020-10-06-26** **Date: 10-09-20**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Construction of Compound to Division Office Building in Ward No 08 Kodigehalli.
Agency	:	Sri. N. Sivakumaraa, #96, K.H.B Gandhinagara Extn,. Bangalore-560064.
Customer's Reference	:	BBMP/EE/BTP/WO/199/2019-20
Sourse of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-09-20
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of testing	:	08-09-20

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer, Kodigehalli Sub Division, Jalahalli Zone, B.B.M.P., Bangalore.

CIVIL Pro Sig Date BANGALORE

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